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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,922	04/25/2001	Jeremy S. Cooper	2018.0070001	2018.0070001 6528	
26111 75	26111 7590 12/22/2003			EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			TO, BAOC	TO, BAOQUOC N	
1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			2172	7	
			DATE MAILED: 12/22/2003	/	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/840,922	COOPER, JEREMY S.				
- Cino Notion Gammary	Examiner	Art Unit				
The MAII ING DATE of this communication ann	Baoquoc N To	2172				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on						
,—	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
 4) Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language profits 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Application ity documents have been received in Application (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification or evisional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

Art Unit: 2172

DETAILED ACTION

1. Claims 1-31 are pending in this application.

2. After reviewing the applicant remarks filed on 09/24/03, the office withdrawn the office action dated on 07/29/03.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al. (US. Patent No. 6,223,520).

Regarding on claims 1, 15 and 27, Ito teaches a method of performing a proximity search, comprising the steps of:

- (a) receiving a proximity parameter defining a search area encompassing a predetermined position (a form of the request is such that a range of the map data is designated as a rectangular range in latitude and longitude) (col. 4, lines 60-61; and
- (c) comparing (compare before retrieve) the set of latitudes and longitudes to position field information in a plurality of records stored in a database (only the map data which exist within a rectangular range are read out and output) (col. 5, lines 25-27).

Ito does not explicitly teach (b) calculating a set of latitudes and longitudes approximating the search area based on the proximity parameter. However, Ito teaches, "when a user of the navigation system requests position computation, the

Art Unit: 2172

navigation function section 12 outputs a request for map data to be used for the position computation to the data access section 14. The position computation is specifically that after the assessment of a location of vehicle detected by a GPS or the like, superimposed displays of the location of vehicle perform. To designate, for example coordinates at the bottom left-hand corner (latitude and longitude) and at the top right-hand corner (latitude and longitude) of a rectangular range similarity to the first embodiment is one of the forms of the requests made by the navigation section 12 to data access section" (col. 6, lines 59-65 and col. 7, lines 1-3). This teaches calculating the latitudes and longitudes position of the car in order to retrieve the display map. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to include calculating the latitudes and longitudes position in order to retrieve the map to determine the location of the user in order to request the destination of the reference to the current location.

Regarding on claims 2, 16 and 28, Ito teaches determining which of the plurality of records include position information within the search area base on step (c) (col. 5, lines 25-30).

Regarding on claims 3, 17 and 29, Ito teaches the proximity parameter is a search radius defining a circular search area center around the predetermined position, and wherein step (b) further comprises the step of calculating the set of latitudes and longitudes to define a smallest square search area into which the circular search area can fit (col. 6, lines 59-65).

Art Unit: 2172

Regarding on claims 4, 18 and 30, Ito teaches the position information in each of the plurality of records includes a latitude and a longitude associated with a position (col. 6, lines 59-65), and

Wherein the smallest square search area covers a latitude range and a longitude range corresponding respectively to a height and a width of the square each corresponding to a distance equal to at least twice the proximity parameter (col. 6, 59-65), and

Wherein step (c) comprises respectively comparing the latitude and longitude associated with each of the plurality of records to the latitude and longitude ranges covered by the smallest square search area to determine which of the plurality of records include position information within the square search area (col. 9, lines 59-65).

Regarding on claims 5, 19 and 31, Ito teaches calculating (calculating) respective latitudes and longitudes of a least first, second, and third corner of the square area, wherein the latitude range extends between the latitude of the first and second corners and the longitude range extends between the longitudes of the second and third corners of the square area (calculating position including the longitude and longitude) (col. 6, lines 59-65).

Regarding in claims 6 and 20, Ito teaches calculating (calculating position) latitudes and longitudes of at least the first, second, and third corners of the square area, wherein the first, second, and third corners of the square area, wherein the first and second corner are at the same longitude but different latitudes and the second and third corners are at the same latitude but different longitudes (col. 6, lines 59-65).

Art Unit: 2172

Regarding in claims 7 and 21, Ito teaches calculating an angular width of the square area, the angular width being subtended by at least the width of the square area (col. 6, lines 59-65); and

Calculating an angular height of the square area, the angular height being subtended by at least the height of the square area (col. 6, lines 59-65).

Regarding on claims 8 and 22, Ito teaches predetermined position has a latitude and a longitude, and wherein the step (b) further comprises the steps of:

Calculating (calculating) respective latitudes for the first, second and third corners using the predetermined position latitude and the angular height of the square area (col. 6, lines 59-65); and

Calculating (calculating) respective longitudes for the first, second and third corner using the predetermined position longitude and the angular width of the square area (col. 6, lines 59-65).

Regarding on claims 9 and 23, Ito teaches step (a) comprises the step of receiving an information request associated with the predetermined position and the proximity parameter (user location is predetermined location) (col. 9, lines 59-65).

Regarding on claims 10 and 24, Ito teaches (e) sending a search result (data map) based on the records associated with position information determined to be within the square area at step (c), to fulfill the information request (col. 6, lines 59-60).

Regarding on claims 11 and 25, Ito teaches step (b) further comprises calculating the circular and the square search areas using non-planar geometry (col. 6, lines 59-63).

Art Unit: 2172

Regarding on claims 12 and 26, Ito teaches step (b) further comprises calculating the circular and the square search areas using planer geometry (col. 6, lines 59-63).

Regarding on claim 13, Ito teaches a method of performing a proximity search, comprising the steps of:

- (a) receiving a proximity parameter (user location including longitude and longitudes) defining a first search area encompassing a predetermined position (user location) (col. 6, lines 28-39);
- (b) mapping the first search area to a second search area positioned to encompass the first search area based on the proximity parameter and being defined in terms of a set of latitudes and longitudes (col. 9, lines 55-39); and

comparing (compare before outputting) the set of latitudes and longitudes to position information in a plurality of records stored in a database to determine which of the plurality of records include position information within the second search area (outputting a request map data) (col. 6, lines 59-62).

lto does not explicitly teach mapping the first search area to second search area positioned to encompass the first search area. However, Ito teaches, "a range of the map data to be read out by the data access section 14 for the data section 22. In the drawing, the area 1, 2...are area segments of the map data recorded in the data section 22 of the recording medium 20 and are also segments which rely on a recording format of the recording medium 20. Further, if a point A and point B are locations which corresponding to latitude and longitude designated by the navigational function section 12, a rectangular rang of the map data request by the navigation function section 12 is a

Art Unit: 2172

range shown by a numeral 100" (col. 5, lines 16-27). This teaches Ito employs mapping in order to retrieve the data map based on the request locations of A and B. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to employing mapping utility in order to retrieve the information from the database based on the requested information.

Regarding on claim 14, Ito teaches the proximity parameter (longitude and longitudes of the user location) is a search radius defining a circular search area centered around the predetermined position, and wherein step (b) comprises mapping the circular search area to a smallest square search area into which the circular search area can fit (col. 9, lines 59-65).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Monden (US. Patent No. 6,094,507) Date: 07/25/2000

Bruce et al. (US. Patent No. 6,539,080 B1) Date: 03/25/2003

Goldensher et al. (US. Patent No. 6,282,540) Date: 08/28/2001

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail Baoquoc N. To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

Art Unit: 2172

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

• (703) 746-7239 [Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II
2121 Crystal Drive
Arlington, VA 22202
Fourth Floor (Receptionist).

Baoquoc N. To

Dec 13, 2003

SUPERMISCRY PATENT EXAMINER TECHNOLOGY CENTER 2100